

Title (en)

METHODS AND APPARATUS TO SUPPORT BASE STATION DETECTION AND SELECTION IN MULTI-TIER WIRELESS NETWORKS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR UNTERSTÜTZUNG VON BASISSTATIONSERKENNUNG UND -AUSWAHL IN MEHRSCICHTIGEN DRAHTLOSEN NETZWERKEN

Title (fr)

PROCÉDÉS ET APPAREIL DE PRISE EN CHARGE DE DÉTECTION ET DE SÉLECTION DE STATION DE BASE DANS DES RÉSEAUX SANS FIL À PLUSIEURS NIVEAUX

Publication

**EP 2517503 A4 20171129 (EN)**

Application

**EP 10839739 A 20101221**

Priority

- US 28873409 P 20091221
- US 28868609 P 20091221
- US 29212110 P 20100104
- US 96133410 A 20101206
- KR 2010009137 W 20101221

Abstract (en)

[origin: WO2011078542A2] A subscriber station can efficiently determine an accessible base station by scanning a subset of base stations based on an optimized list received from a serving base station. The subscriber station includes a white list that contains information regarding a number of closed subscriber group (CSG) base stations to which the subscriber station is subscribed. The subscriber station can transmit a request message that includes one or more of: indication of whether the detected identifier of the femto base station is in the whitelist or not; and its location information. In response, the base station can send a message that includes the nearby femtocells and whether the femtocell is accessible or inaccessible to the subscriber station. The femto base station can be designed to be in transmission off mode when none of its subscribers is in its coverage. The serving base station can select a set of the accessible femtocells to the subscriber station, and request the selected femtocells to monitor an uplink signaling of the subscriber station so that the femtocell can be awoken when the femtocell is in transmission off mode or be aware that the subscriber station is in proximity, if the uplink signaling is detected.

IPC 8 full level

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CPC (source: EP KR US)

**H04W 36/0061** (2013.01 - EP KR US); **H04W 48/16** (2013.01 - KR); **H04W 48/20** (2013.01 - KR); **H04W 74/004** (2013.01 - KR); **H04W 84/045** (2013.01 - KR); **H04W 88/08** (2013.01 - KR); **H04W 84/045** (2013.01 - EP US)

Citation (search report)

- [X] US 2009247170 A1 20091001 - BALASUBRAMANIAN SRINIVASAN [US], et al
- [X] US 2009092080 A1 20090409 - BALASUBRAMANIAN SRINIVASAN [US], et al
- [X] WO 2009058068 A1 20090507 - ERICSSON TELEFON AB L M [SE], et al
- [X] US 2009092097 A1 20090409 - NYLANDER TOMAS [SE], et al
- See references of WO 2011078542A2

Designated contracting state (EPC)

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